

Lowcountry Area Base Labor Market Analysis



South Carolina
Department of
Commerce
Labor Market Information



August 2009

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EXECUTIVE SUMMARY

Population

The Lowcountry area's population growth has been faster than the state's.

Future population growth is expected to continue to be faster than the state rate.

The Lowcountry area attracts workers predominantly from within its borders.

Over half live in Beaufort County.

Income

Per capita income growth has been above state and national rates.

The Lowcountry area's per capita income remains above the state level and has moved closer to the national level.

The Lowcountry area's average wages are higher than those of the state for the community and social services; education, training and library; arts, design, entertainment, sports and media; healthcare practitioners and technical; healthcare support; protective service; food preparation and serving related; building and grounds cleaning and maintenance; personal care and service; farming and forestry; and construction and extraction occupational groups.

Education

The number of degrees awarded by area post-secondary institutions has increased.

The greatest increase has been in the area of healthcare.

Occupations

The following occupational groups are expected to have faster growth in the Lowcountry area than in the state

Management; business and financial operations; computer and mathematical science; architecture and engineering; life, physical and social science; community and social services; legal; arts, design, entertainment, sports and media; healthcare practitioners and technical; healthcare support; sales and related; office and administrative support; construction and extraction; installation, maintenance and repair; production; and transportation and material moving.

Requirements for the Lowcountry area's workers are expected to grow in the following levels of education and experience:

Work experience in a related field, postsecondary vocational award, associate's degree, bachelor's degree, and master's degree or higher.

Industry

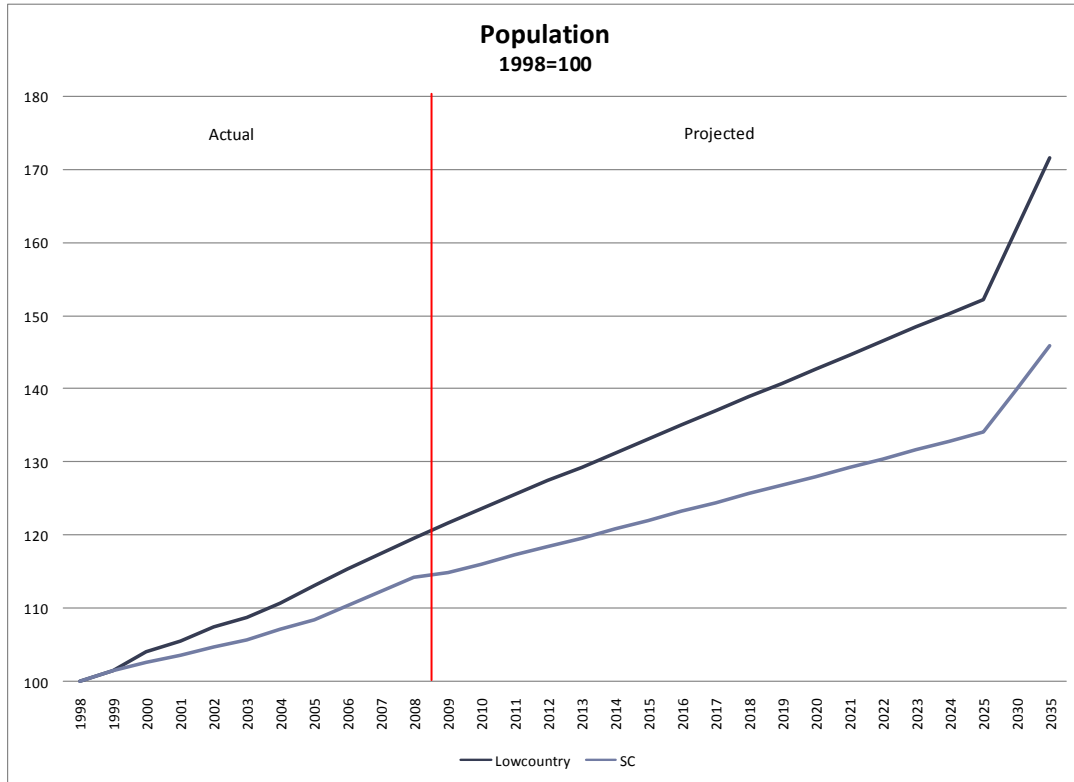
Sectors rated as having potential in various parts of the Lowcountry area are as follows:

Forestry and logging, support activities for agriculture and forestry, construction of buildings, heavy and civil engineering construction, specialty trade contractors, nonmetallic mineral product manufacturing, truck transportation, real estate, and management of companies and enterprises.

POPULATION

Growth

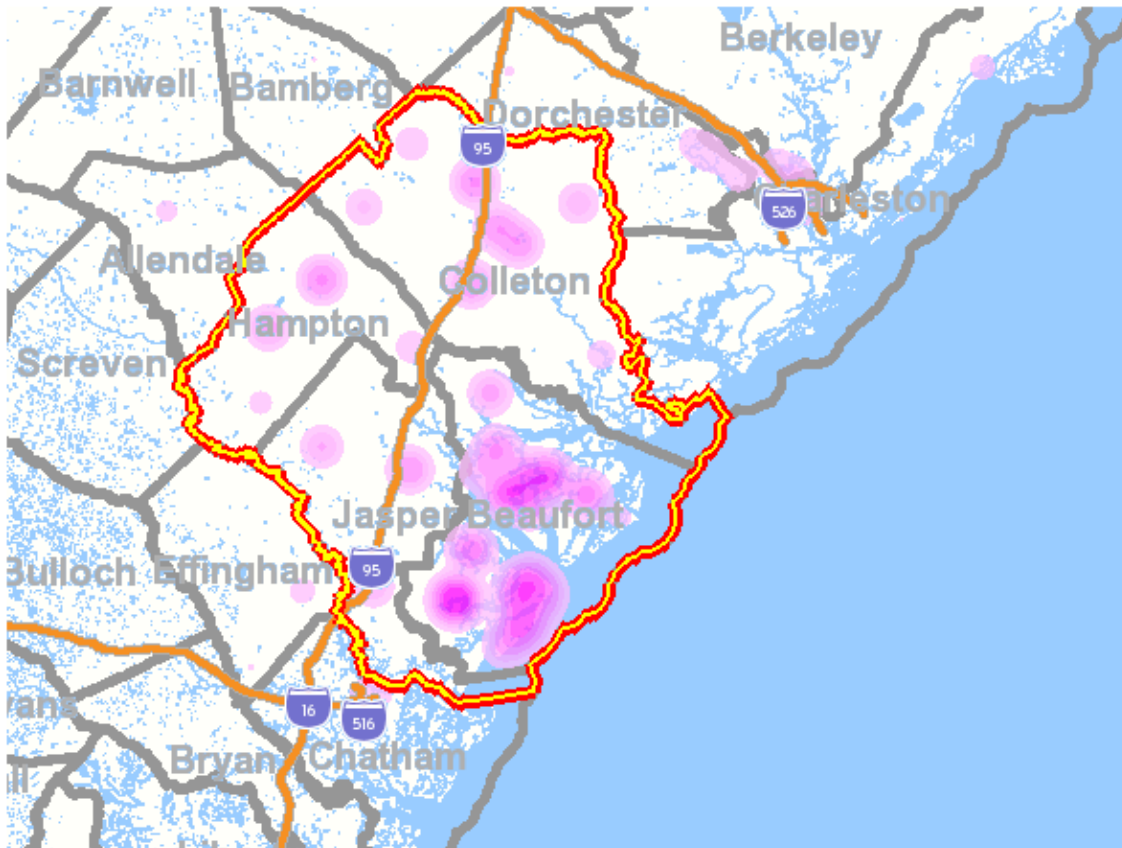
The Lowcountry area's 2008 population was 232,839. The area population has grown by 19.7% since 1998, compared to 14.3% for South Carolina. Future population growth is expected to continue to be faster than state levels.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

LABORSHED

The map below shows where Lowcountry area workers come from (in 2006, latest available data). The Lowcountry area draws over half of its workers from Beaufort County, with over 10% coming from Colleton County.



Source: U.S. Census Bureau, Local Employment Dynamics.

Characteristics of Workers

Age of Workers:

30 or younger	27.6%
31 to 54	53.2%
55 or older	19.1%

Earnings of Workers:

\$1,200 per month or less	30.0%
\$1,201 to \$3,400 per month	45.9%
More than \$3,400 per month	24.0%

States Where Workers Live:

South Carolina	94.0%
Georgia	5.2%
All other locations	0.8%

Counties Where Workers Live:

Beaufort	58.1%
Colleton	11.5%
Hampton	5.1%
Jasper	4.3%
Charleston	3.3%
Chatham (Georgia)	2.6%
Dorchester	1.9%
Lexington	1.7%
Berkeley	1.6%
Effingham (Georgia)	0.9%
All Other Locations	8.9%

Cities Where Workers Live:

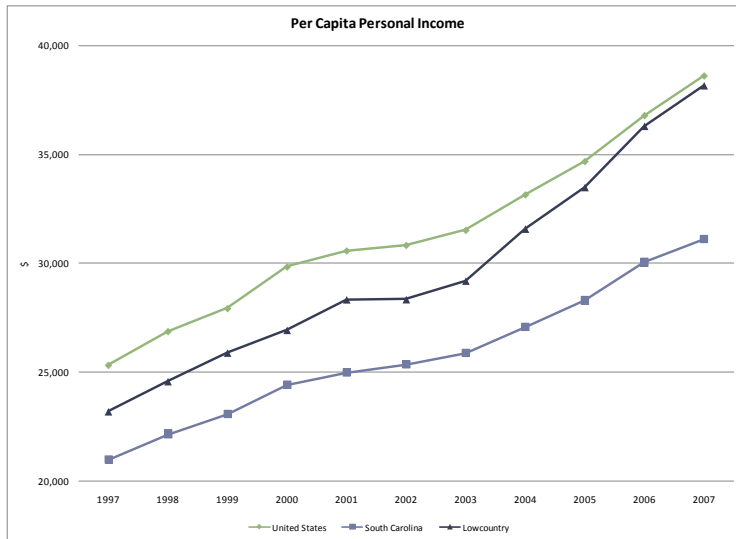
Hilton Head Island, South Carolina	18.7%
Beaufort, South Carolina	5.3%
Bluffton, South Carolina	2.7%
Port Royal, South Carolina	2.6%
Burton, South Carolina	2.2%
Walterboro, South Carolina	1.8%
North Charleston, South Carolina	1.6%
Savannah, Georgia	1.4%
Laurel Bay, South Carolina	1.3%
Hanahan, South Carolina	0.9%
All Other Locations	61.4%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

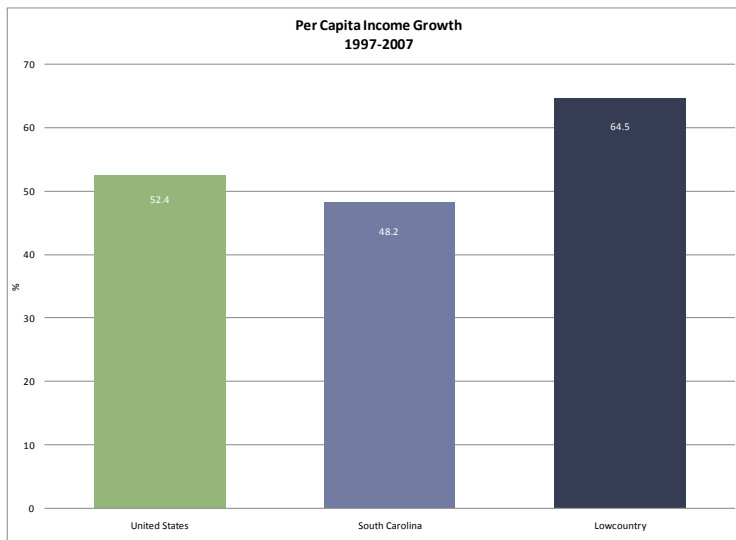
Per Capita Income

The Lowcountry area's per capita income moved farther ahead of the state level and closer to the national level from 1997 to 2007.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

As reflected above, the Lowcountry area's per capita income growth was above both South Carolina's and the United States'.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Wages by Industry

The Lowcountry area's average wages are below those of South Carolina (\$616 vs. \$697 in 2008). Average wages were up 17% in the Lowcountry area over the past five years, compared to 18% for the state. All major sectors had growth over the past five years, led by wholesale trade.

Industry	NAICS Code	2008 Average Weekly Wage (\$)	2003 Average Weekly Wage (\$)	% Change
Total, Private and Government		616	528	17
Construction	23	719	606	19
Manufacturing	31-33	709	647	10
Wholesale Trade	42	932	679	37
Retail Trade	44-45	457	412	11
Transportation and Warehousing	48-49	631	496	27
Information	51	990	870	14
Finance and Insurance	52	1,012	961	5
Real Estate and Rental and Leasing	53	690	579	19
Professional, Scientific & Technical Services	54	1,132	999	13
Administration & Support & Waste Management & Remediation Services	56	514	418	23
Educational Services	61	522	493	6
Health Care & Social Assistance	62	701	630	11
Arts, Entertainment, and Recreation	71	420	386	9
Accommodation and Food Services	72	334	290	15
Other Services (Except Public Administration)	81	525	461	14
Federal Government		872	721	21
State Government		685	589	16
Local Government		739	562	31

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

Average wages in the Lowcountry area are higher than South Carolina's in the following occupational groups:

- Community and social services
- Education, training and library
- Arts, design, entertainment, sports and media
- Healthcare practitioners and technical
- Healthcare support
- Protective service
- Food preparation and serving related
- Building and grounds cleaning and maintenance
- Personal care and service
- Farming and forestry
- Construction and extraction

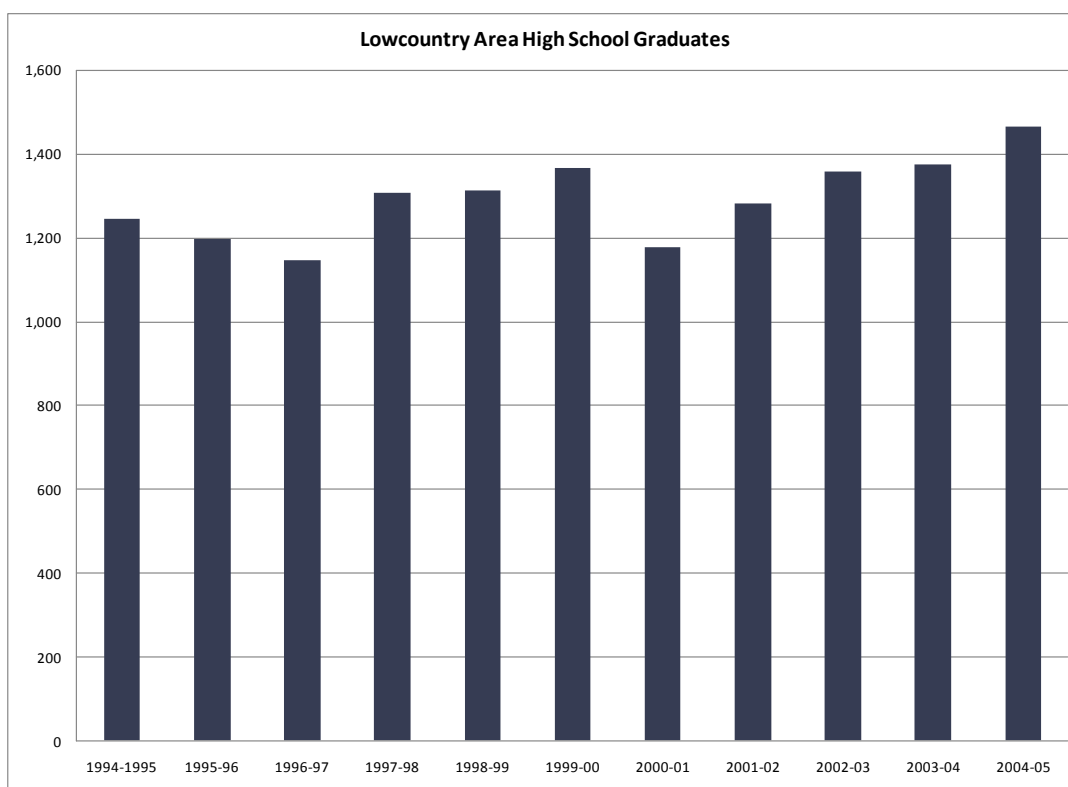
Occupation	2009 Lowcountry Area Median Hourly Wage (\$)	2009 SC Median Hourly Wage (\$)
Management occupations	20.83	23.49
Business and financial operations occupations	16.74	19.14
Computer and mathematical science occupations	20.83	25.83
Architecture and engineering occupations	23.43	28.98
Life, physical and social science occupations	20.36	21.12
Community and social services occupations	14.45	12.94
Legal occupations	22.40	25.39
Education, training and library occupations	22.81	22.66
Arts, design, entertainment, sports and media occupations	12.40	12.27
Healthcare practitioners and technical occupations	29.10	28.56
Healthcare support occupations	11.68	10.74
Protective service occupations	16.23	14.37
Food preparation and serving related occupations	8.94	8.18
Building and grounds cleaning and maintenance occupations	10.36	8.75
Personal care and service occupations	8.93	8.41
Sales and related occupations	10.81	11.00
Office and administrative support occupations	12.94	13.06
Farming, fishing, and forestry occupations	12.44	10.85
Construction and extraction occupations	14.67	14.10
Installation, maintenance and repair occupations	15.41	16.19
Production occupations	12.51	14.75
Transportation and material moving occupations	11.55	12.65

Source: Economic Modeling Specialists, Inc.

EDUCATION

High School Graduates

From 1995 to 2005 (latest data available), the number of Lowcountry area students receiving high school diplomas increased by 219—or 18%. In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 1,464 people received high school diplomas in the Lowcountry area in 2005. The Lowcountry area had 320 more 12th grade students in 2004-05 than in 1994-95. Also, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 70 (to 158) over the 1995-2005 period.



Source: National Center for Education Statistics.

Higher Education Graduates

Almost 4,600 more students graduated from higher educational institutions in the Lowcountry area in 2007 than in 1997, an increase of 50%. The greatest numerical increase was in the healthcare field.

Program	1997	2007	Change	% Change
Agriculture, agriculture operations and related sciences	36	8	-28	-78
Architecture and related services	38	159	121	318
Area, ethnic, cultural and gender studies	--	6	--	--
Biological and biomedical sciences	396	455	59	15
Business, management, marketing & related support services	1,239	1,779	540	44
Communication, journalism and related programs	205	392	187	91
Communications technologies/technicians & support services	25	312	287	1,148
Computer and information sciences and support services	192	355	163	85
Construction trades	7	98	91	1,300
Education	1,140	1,082	-58	-5
Engineering technologies/technicians	268	322	54	20
Engineering	67	74	7	10
English language and literature/letters	159	167	8	5
Family and consumer sciences/human sciences	141	258	117	83
Foreign languages, literatures and linguistics	40	135	95	238
Health professions and related clinical sciences	1,767	2,893	1,126	64
Legal professions and studies	74	101	27	36
Liberal arts and sciences, general studies and humanities	583	620	37	6
Mathematics and statistics	93	86	-7	-8
Mechanic and repair technologies/technicians	157	397	240	153
Multi/interdisciplinary studies	58	135	77	133
Natural resources and conservation	34	30	-4	-12
Parks, recreation, leisure and fitness studies	17	66	49	288
Personal and culinary services	111	276	165	149
Philosophy and religious studies	39	70	31	79
Physical sciences	112	127	15	13
Precision production	186	85	-101	-54
Psychology	282	348	66	23
Public administration and social service professions	122	165	43	35
Science technologies/technicians	23	13	-10	-43
Security and protective services	214	450	236	110
Social sciences and history	527	682	155	29
Theology and religious vocations	4	21	17	425
Transportation and materials moving	124	168	44	35
Visual and performing arts	615	1,346	731	119
TOTAL	9,095	13,681	4,586	50

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Armstrong Atlantic State University (GA), Beta Tech, Charleston Southern University, Citadel, Claflin University, College of Charleston, Denmark Technical College, Medical University of South Carolina, Miller-Motte Technical College, Orangeburg Calhoun Technical College, Savannah College of Art and Design (GA), Savannah State University (GA), Savannah Technical College (GA), South Carolina State University, South University-Savannah (GA), Southern Methodist College, Technical College of the Lowcountry, Trident Technical College, University of Phoenix-Savannah Campus (GA), University of South Carolina-Beaufort, University of South Carolina-Salkehatchie, Voorhees College.

OCCUPATIONS

Occupational Projections

The following occupational groups are projected to grow faster in the Lowcountry area than in the state:

- Management
- Business and financial operations
- Computer and mathematical science
- Architecture and engineering
- Life, physical and social science
- Community and social services
- Legal
- Arts, design, entertainment, sports and media
- Healthcare practitioners and technical
- Healthcare support
- Sales and related
- Office and administrative support
- Construction and extraction
- Installation, maintenance and repair
- Production
- Transportation and material moving

See **Appendix A** for detailed occupational information.

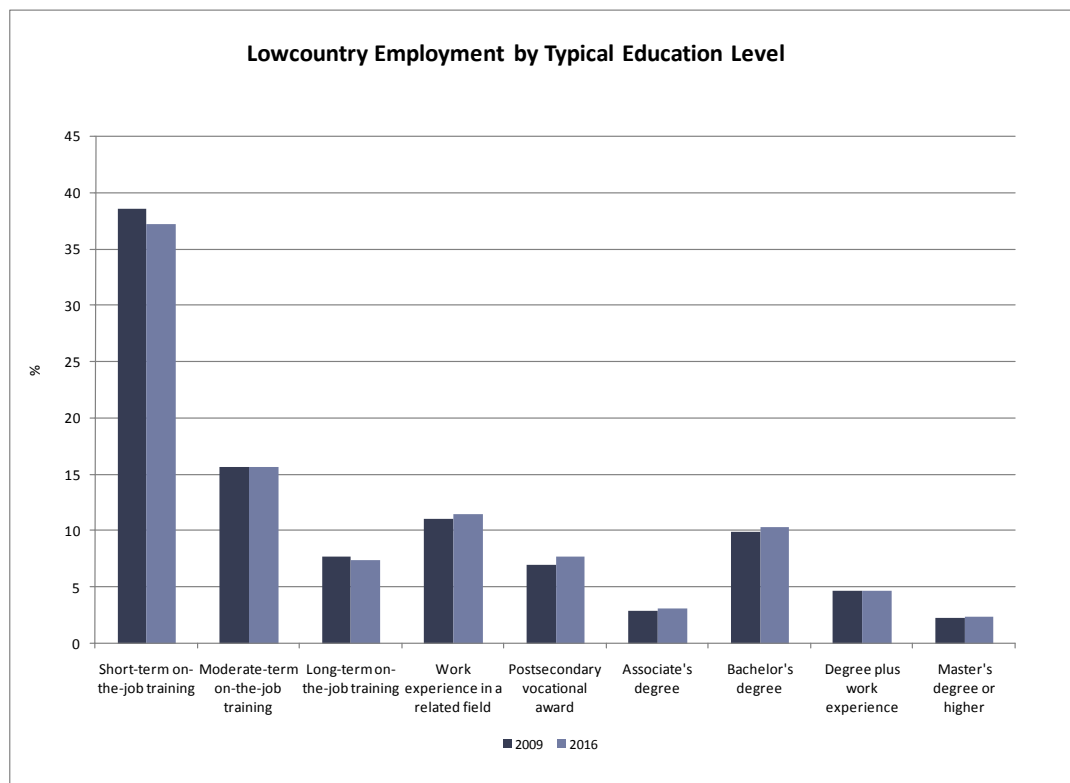
Occupation	2009-2016 Lowcountry Area Projected Growth (%)	2009-2016 SC Projected Growth (%)
Management occupations	18	13
Business and financial operations occupations	20	15
Computer and mathematical science occupations	22	15
Architecture and engineering occupations	13	11
Life, physical and social science occupations	11	10
Community and social services occupations	10	9
Legal occupations	19	17
Education, training, and library occupations	9	10
Arts, design, entertainment, sports and media occupations	18	13
Healthcare practitioners and technical occupations	21	17
Healthcare support occupations	26	20
Protective service occupations	9	10
Food preparation and serving related occupations	5	9
Building and grounds cleaning and maintenance occupations	16	18
Personal care and service occupations	6	6
Sales and related occupations	22	16
Office and administrative support occupations	13	8
Farming, fishing, and forestry occupations	3	6
Construction and extraction occupations	13	12
Installation, maintenance and repair occupations	16	12
Production occupations	6	-1
Transportation and material moving occupations	10	7

Source: *Economic Modeling Specialists, Inc.*

Occupational Education Requirements

Occupational growth trends show that education and training requirements are generally increasing. This is reflected in the projected growth of occupations such as business professionals, engineers and healthcare practitioners in the Lowcountry area. Based on employment projections, the Lowcountry area is expected to see growth in requirements for the following levels of education and experience:

- Work experience in a related field
- Postsecondary vocational award
- Associate's degree
- Bachelor's degree
- Master's degree or higher



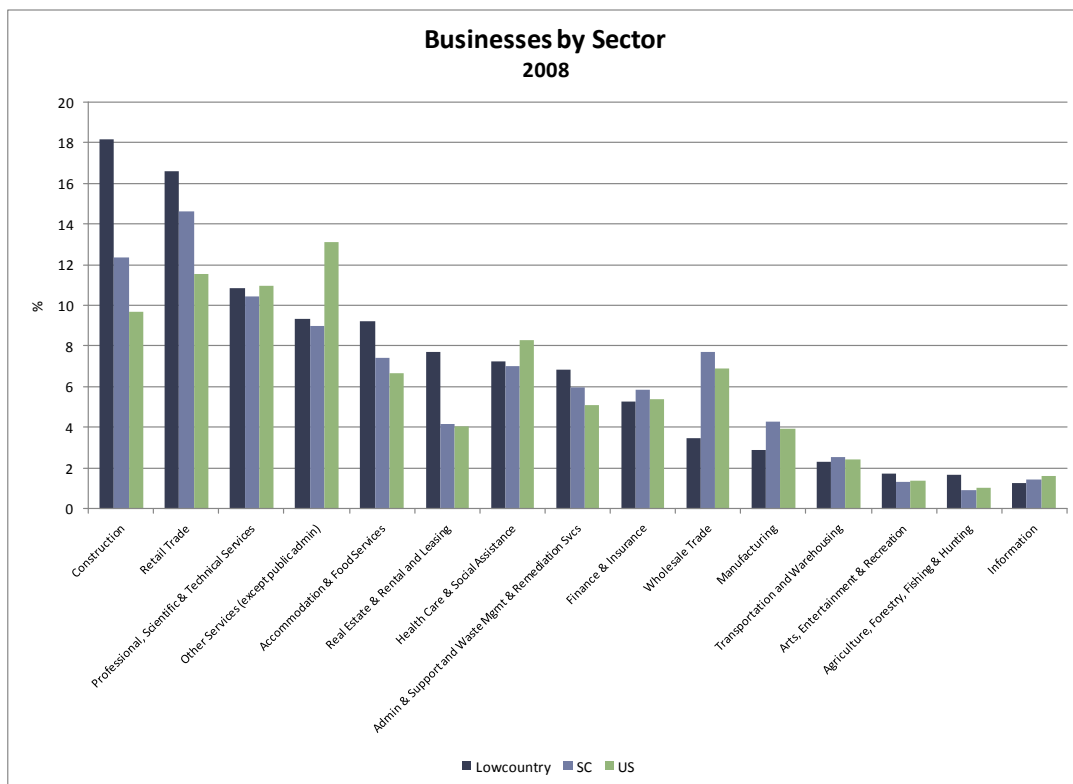
Source: Economic Modeling Specialists, Inc

INDUSTRY

Businesses by Sector

The Lowcountry area had higher percentages of businesses than South Carolina and the nation in the following sectors:

- Construction
- Retail trade
- Accommodation and food services
- Real estate and rental and leasing
- Administration and support and waste management and remediation services
- Arts, entertainment and recreation
- Agriculture and forestry



Source: U.S. Department of Labor, Bureau of Labor Statistics.

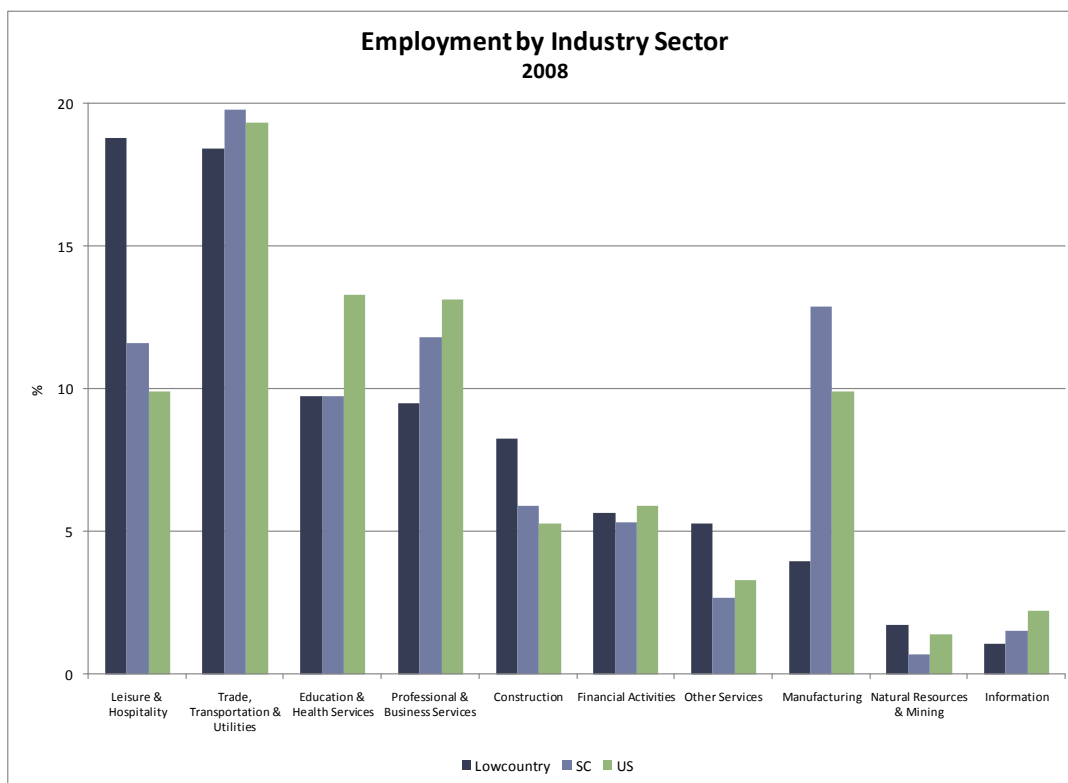
Growth in Number of Businesses

The number of private businesses in the Lowcountry area rose 1% from 2003 to 2008, compared to a 3% increase for the state.

Because the amount of detailed data varies by county, information for three-digit NAICS code sectors for the Lowcountry area as a whole is unavailable. Please see county reports for information on growth by detailed industry sectors.

Employment by Sector

Compared to South Carolina and the United States, the Lowcountry area's employment is more concentrated in leisure and hospitality, construction, other services, and natural resources and mining.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

For each county in the Lowcountry area, industry sectors with available data were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 2003-2008 employment growth | Competitive effect ¹ |
| • 2003-2008 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2003-2008 employment growth (Did the sector add a significant number of jobs?)
- 2003-2008 employment growth rate (Did the sector add jobs at a greater rate than overall job growth?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than the overall county average (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

Industries of Note

Based on the analyses for each county in the Lowcountry area, the following sectors of note were identified (and the counties for which they were significant):

- Forestry and logging (Colleton)
- Support activities for agriculture and forestry (Colleton)
- Construction of buildings (Beaufort, Jasper)
- Heavy and civil engineering construction (Colleton, Jasper)
- Specialty trade contractors (Beaufort)
- Nonmetallic mineral product manufacturing (Jasper)
- Truck transportation (Hampton)
- Real estate (Beaufort)
- Management of companies and enterprises (Beaufort)

See the reports for each county for information about the respective industries of note as well as other sectors in the county.

¹ *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

² *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2008 data.*

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of the Lowcountry area's labor market. We hope that it will help in advancing the progress of the Lowcountry area's economic development.

What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Lowcountry Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. *What is the Lowcountry area's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. *What other factors are vital to the Lowcountry area and its communities?*

Over and above pure economic considerations, what is important to the citizens of the Lowcountry area? How does Lowcountry want to be perceived? What quality of life issues affect Lowcountry? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Lowcountry

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-1011	Chief executives	945	1,126	181	19	1.10	28.02	Degree plus work experience
11-1021	General and operations managers	1,385	1,493	108	8	1.03	32.62	Degree plus work experience
11-1031	Legislators	77	80	3	4	1.60	9.71	Degree plus work experience
11-2011	Advertising and promotions managers	85	93	8	9	2.18	25.72	Degree plus work experience
11-2021	Marketing managers	103	124	21	20	0.65	23.18	Degree plus work experience
11-2022	Sales managers	293	347	54	18	1.05	39.77	Degree plus work experience
11-2031	Public relations managers	42	48	6	14	0.90	29.20	Degree plus work experience
11-3011	Administrative services managers	239	268	29	12	1.24	29.72	Degree plus work experience
11-3021	Computer and information systems managers	76	91	15	20	0.34	34.66	Degree plus work experience
11-3031	Financial managers	399	461	62	16	0.81	27.16	Degree plus work experience

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-3041	Compensation and benefits managers	19	22	3	16	0.55	23.44	Degree plus work experience
11-3042	Training and development managers	18	21	3	17	0.67	24.50	Degree plus work experience
11-3049	Human resources managers, all other	23	26	3	13	0.45	25.55	Degree plus work experience
11-3051	Industrial production managers	42	41	-1	-2	0.37	27.23	Work experience in a related field
11-3061	Purchasing managers	17	18	1	6	0.34	28.91	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	40	46	6	15	0.51	26.69	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	224	231	7	3	0.55	11.01	Degree plus work experience
11-9012	Farmers and ranchers	826	824	-2	0	0.64	6.55	Long-term on-the-job training
11-9021	Construction managers	675	810	135	20	1.25	16.72	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	39	42	3	8	0.52	18.78	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	162	172	10	6	0.83	42.67	Degree plus work experience

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-9033	Education administrators, postsecondary	31	36	5	16	0.29	23.07	Degree plus work experience
11-9039	Education administrators, all other	45	48	3	7	0.94	21.03	Degree plus work experience
11-9041	Engineering managers	88	99	11	13	0.64	36.02	Degree plus work experience
11-9051	Food service managers	443	489	46	10	1.29	15.66	Work experience in a related field
11-9061	Funeral directors	14	13	-1	-7	0.60	25.88	Associate's degree
11-9081	Lodging managers	175	207	32	18	1.64	26.19	Work experience in a related field
11-9111	Medical and health services managers	235	277	42	18	0.96	37.39	Degree plus work experience
11-9131	Postmasters and mail superintendents	34	34	0	0	1.75	28.52	Work experience in a related field
11-9141	Property, real estate, and community association managers	1,469	2,105	636	43	1.63	8.77	Bachelor's degree
11-9151	Social and community service managers	92	100	8	9	0.74	18.77	Bachelor's degree
11-9199	Managers, all other	939	1,128	189	20	0.77	11.84	Work experience in a related field
13-1011	Agents and business managers of artists, performers, and athletes	25	31	6	24	0.66	6.67	Degree plus work experience

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
13-1021	Purchasing agents and buyers, farm products	12	13	1	8	0.81	21.24	Work experience in a related field
13-1022	Wholesale and retail buyers, except farm products	62	71	9	15	0.51	25.06	Work experience in a related field
13-1023	Purchasing agents, except wholesale, retail, and farm products	131	135	4	3	0.59	20.59	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	46	48	2	4	0.20	25.16	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	17	19	2	12	0.61	15.99	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	86	84	-2	-2	0.46	15.89	Long-term on-the-job training
13-1051	Cost estimators	101	121	20	20	0.60	21.44	Work experience in a related field
13-1061	Emergency management specialists	11	12	1	9	0.84	21.53	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	77	97	20	26	0.48	17.38	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	40	48	8	20	0.40	18.97	Bachelor's degree
13-1073	Training and development specialists	75	89	14	19	0.44	25.64	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	59	69	10	17	0.32	23.59	Bachelor's degree
13-1081	Logisticians	26	28	2	8	0.34	25.78	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
13-1111	Management analysts	694	796	102	15	0.90	19.05	Degree plus work experience
13-1121	Meeting and convention planners	82	93	11	13	1.41	12.92	Bachelor's degree
13-1199	Business operation specialists, all other	216	249	33	15	0.27	26.91	Bachelor's degree
13-2011	Accountants and auditors	849	1,003	154	18	0.72	16.34	Bachelor's degree
13-2021	Appraisers and assessors of real estate	538	769	231	43	1.66	9.85	Postsecondary vocational award
13-2031	Budget analysts	19	19	0	0	0.38	23.22	Bachelor's degree
13-2041	Credit analysts	22	23	1	5	0.42	23.80	Bachelor's degree
13-2051	Financial analysts	133	179	46	35	0.45	10.20	Bachelor's degree
13-2052	Personal financial advisors	516	688	172	33	0.95	11.69	Bachelor's degree
13-2053	Insurance underwriters	15	15	0	0	0.19	22.24	Bachelor's degree
13-2071	Loan counselors	23	24	1	4	0.64	15.95	Bachelor's degree
13-2072	Loan officers	177	184	7	4	0.71	26.37	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	33	32	-1	-3	0.65	15.47	Bachelor's degree
13-2082	Tax preparers	170	180	10	6	2.02	8.52	Moderate-term on-the-job training
13-2099	Financial specialists, all other	59	56	-3	-5	0.47	21.67	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
15-1011	Computer and information scientists, research	18	22	4	22	0.36	19.25	Doctoral degree
15-1021	Computer programmers	116	126	10	9	0.33	16.99	Bachelor's degree
15-1031	Computer software engineers, applications	36	49	13	36	0.09	23.58	Bachelor's degree
15-1032	Computer software engineers, systems software	37	48	11	30	0.12	25.54	Bachelor's degree
15-1041	Computer support specialists	143	169	26	18	0.33	14.91	Associate's degree
15-1051	Computer systems analysts	61	79	18	30	0.15	24.54	Bachelor's degree
15-1061	Database administrators	28	35	7	25	0.30	23.48	Bachelor's degree
15-1071	Network and computer systems administrators	85	107	22	26	0.32	23.37	Bachelor's degree
15-1081	Network systems and data communications analysts	88	115	27	31	0.37	20.73	Bachelor's degree
15-1099	Computer specialists, all other	56	67	11	20	0.32	27.20	Associate's degree
15-2031	Operations research analysts	22	25	3	14	0.44	29.79	Master's degree
17-1011	Architects, except landscape and naval	47	53	6	13	0.43	19.58	Bachelor's degree
17-1012	Landscape architects	103	113	10	10	2.30	22.71	Bachelor's degree
17-1021	Cartographers and photogrammetrists	13	14	1	8	1.03	18.43	Bachelor's degree
17-1022	Surveyors	53	63	10	19	1.20	18.93	Bachelor's degree
17-2051	Civil engineers	104	119	15	14	0.46	25.89	Bachelor's degree
17-2061	Computer hardware engineers	29	33	4	14	0.49	23.36	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
17-2071	Electrical engineers	64	73	9	14	0.55	34.50	Bachelor's degree
17-2072	Electronics engineers, except computer	31	35	4	13	0.29	26.54	Bachelor's degree
17-2081	Environmental engineers	25	30	5	20	0.60	29.81	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	41	47	6	15	2.03	28.70	Bachelor's degree
17-2112	Industrial engineers	36	45	9	25	0.23	28.63	Bachelor's degree
17-2131	Materials engineers	18	19	1	6	1.01	22.54	Bachelor's degree
17-2141	Mechanical engineers	43	47	4	9	0.25	28.19	Bachelor's degree
17-2161	Nuclear engineers	47	49	2	4	1.66	28.54	Bachelor's degree
17-2199	Engineers, all other	38	40	2	5	0.27	24.14	Bachelor's degree
17-3011	Architectural and civil drafters	24	25	1	4	0.27	14.82	Postsecondary vocational award
17-3012	Electrical and electronics drafters	15	17	2	13	0.54	20.16	Postsecondary vocational award
17-3013	Mechanical drafters	44	50	6	14	0.76	23.06	Postsecondary vocational award
17-3022	Civil engineering technicians	19	22	3	16	0.29	16.71	Associate's degree
17-3023	Electrical and electronic engineering technicians	33	36	3	9	0.27	18.55	Associate's degree
17-3025	Environmental engineering technicians	16	20	4	25	0.92	18.42	Associate's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
17-3026	Industrial engineering technicians	15	16	1	7	0.30	20.62	Associate's degree
17-3027	Mechanical engineering technicians	25	29	4	16	0.71	19.16	Associate's degree
17-3029	Engineering technicians, except drafters, all other	19	19	0	0	0.35	20.41	Associate's degree
17-3031	Surveying and mapping technicians	116	134	18	16	1.89	16.99	Moderate-term on-the-job training
19-1032	Foresters	39	36	-3	-8	3.21	22.61	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	30	37	7	23	0.44	26.76	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	16	19	3	19	0.49	15.79	Master's degree
19-3021	Market research analysts	76	91	15	20	0.38	17.23	Bachelor's degree
19-3022	Survey researchers	30	34	4	13	0.71	13.35	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	82	92	10	12	0.60	22.37	Doctoral degree
19-3032	Industrial-organizational psychologists	33	40	7	21	0.54	16.41	Master's degree
19-3039	Psychologists, all other	34	41	7	21	0.50	17.50	Master's degree
19-3051	Urban and regional planners	32	36	4	13	1.11	25.46	Master's degree
19-3099	Social scientists and related workers, all other	35	33	-2	-6	1.54	29.59	Master's degree
19-4051	Nuclear technicians	25	27	2	8	3.45	22.73	Associate's degree
19-4091	Environmental science and protection technicians, including health	31	41	10	32	1.13	21.30	Associate's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
19-4093	Forest and conservation technicians	36	33	-3	-8	1.39	15.16	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	19	22	3	16	0.25	15.45	Master's degree
21-1012	Educational, vocational, and school counselors	195	212	17	9	0.92	21.99	Master's degree
21-1014	Mental health counselors	30	33	3	10	0.30	12.50	Master's degree
21-1015	Rehabilitation counselors	35	39	4	11	0.34	13.47	Master's degree
21-1019	Counselors, all other	10	12	2	20	0.26	9.69	Master's degree
21-1021	Child, family, and school social workers	139	148	9	6	0.58	14.89	Bachelor's degree
21-1022	Medical and public health social workers	113	129	16	14	0.99	18.03	Bachelor's degree
21-1023	Mental health and substance abuse social workers	32	35	3	9	0.27	10.29	Master's degree
21-1029	Social workers, all other	48	50	2	4	0.73	17.43	Bachelor's degree
21-1091	Health educators	16	17	1	6	0.29	18.28	Master's degree
21-1092	Probation officers and correctional treatment specialists	24	27	3	13	0.32	17.34	Bachelor's degree
21-1093	Social and human service assistants	76	85	9	12	0.27	11.69	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	24	27	3	13	0.24	11.22	Bachelor's degree
21-2011	Clergy	156	172	16	10	0.76	8.26	Master's degree
21-2021	Directors, religious activities and education	73	81	8	11	0.77	8.66	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
21-2099	Religious workers, all other	34	38	4	12	0.75	7.78	Bachelor's degree
23-1011	Lawyers	505	582	77	15	0.78	27.62	First professional degree
23-1023	Judges, magistrate judges, and magistrates	42	46	4	10	2.20	21.36	Degree plus work experience
23-2011	Paralegals and legal assistants	320	407	87	27	1.61	19.58	Associate's degree
23-2091	Court reporters	29	36	7	24	0.89	14.21	Postsecondary vocational award
23-2092	Law clerks	51	60	9	18	1.20	12.80	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	95	109	14	15	1.50	16.13	Moderate-term on-the-job training
23-2099	Legal support workers, all other	36	41	5	14	0.72	13.67	Bachelor's degree
25-1099	Postsecondary teachers	177	227	50	28	0.13	29.05	Doctoral degree
25-2011	Preschool teachers, except special education	240	261	21	9	0.57	12.72	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	211	235	24	11	1.33	28.94	Bachelor's degree
25-2021	Elementary school teachers, except special education	1,050	1,158	108	10	0.84	26.70	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	613	666	53	9	1.14	27.26	Bachelor's degree
25-2023	Vocational education teachers, middle school	23	26	3	13	0.69	12.72	Degree plus work experience

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
25-2031	Secondary school teachers, except special and vocational education	703	737	34	5	0.83	26.37	Bachelor's degree
25-2032	Vocational education teachers, secondary school	74	74	0	0	0.89	33.31	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	155	175	20	13	0.85	27.09	Bachelor's degree
25-2042	Special education teachers, middle school	53	59	6	11	0.65	29.94	Bachelor's degree
25-2043	Special education teachers, secondary school	47	50	3	6	0.40	33.59	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	58	68	10	17	0.48	12.03	Bachelor's degree
25-3021	Self-enrichment education teachers	129	149	20	16	0.58	11.50	Work experience in a related field
25-3099	Teachers and instructors, all other	143	159	16	11	0.28	25.82	Bachelor's degree
25-4012	Curators	17	18	1	6	1.59	10.58	Master's degree
25-4021	Librarians	99	104	5	5	0.78	23.01	Master's degree
25-4031	Library technicians	82	90	8	10	0.89	10.72	Postsecondary vocational award
25-9031	Instructional coordinators	97	113	16	16	0.93	25.77	Master's degree
25-9041	Teacher assistants	669	714	45	7	0.61	10.40	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	34	36	2	6	0.39	10.94	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-1011	Art directors	68	83	15	22	0.70	8.21	Degree plus work experience
27-1012	Craft artists	58	71	13	22	0.80	6.69	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	63	77	14	22	0.83	7.37	Long-term on-the-job training
27-1014	Multi-media artists and animators	68	86	18	26	0.72	8.19	Bachelor's degree
27-1019	Artists and related workers, all other	58	71	13	22	0.78	6.85	Long-term on-the-job training
27-1021	Commercial and industrial designers	44	54	10	23	0.80	13.64	Bachelor's degree
27-1022	Fashion designers	34	41	7	21	0.76	11.15	Associate's degree
27-1023	Floral designers	105	115	10	10	1.46	13.68	Moderate-term on-the-job training
27-1024	Graphic designers	242	300	58	24	1.23	15.69	Bachelor's degree
27-1025	Interior designers	112	144	32	29	1.56	18.90	Associate's degree
27-1026	Merchandise displayers and window trimmers	45	55	10	22	0.59	13.05	Moderate-term on-the-job training
27-1027	Set and exhibit designers	42	50	8	19	1.10	10.40	Bachelor's degree
27-1029	Designers, all other	34	41	7	21	0.84	11.08	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-2011	Actors	39	47	8	21	0.54	8.24	Long-term on-the-job training
27-2012	Producers and directors	42	49	7	17	0.43	14.59	Degree plus work experience
27-2021	Athletes and sports competitors	27	34	7	26	0.80	10.65	Long-term on-the-job training
27-2022	Coaches and scouts	253	283	30	12	1.54	19.59	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	30	36	6	20	0.90	7.38	Long-term on-the-job training
27-2031	Dancers	15	17	2	13	0.94	9.79	Long-term on-the-job training
27-2032	Choreographers	14	15	1	7	0.82	11.85	Work experience in a related field
27-2041	Music directors and composers	104	125	21	20	0.78	6.59	Degree plus work experience
27-2042	Musicians and singers	173	205	32	18	0.91	7.03	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	51	58	7	14	0.65	7.03	Long-term on-the-job training
27-3011	Radio and television announcers	34	30	-4	-12	0.91	13.39	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-3012	Public address system and other announcers	12	15	3	25	0.68	8.43	Long-term on-the-job training
27-3022	Reporters and correspondents	19	25	6	32	0.43	11.76	Degree plus work experience
27-3031	Public relations specialists	162	183	21	13	0.73	16.88	Bachelor's degree
27-3041	Editors	89	102	13	15	0.75	15.11	Bachelor's degree
27-3042	Technical writers	23	28	5	22	0.51	17.25	Bachelor's degree
27-3043	Writers and authors	257	308	51	20	0.96	9.96	Bachelor's degree
27-3091	Interpreters and translators	89	103	14	16	0.84	13.88	Long-term on-the-job training
27-3099	Media and communication workers, all other	86	100	14	16	0.89	13.80	Long-term on-the-job training
27-4011	Audio and video equipment technicians	19	23	4	21	0.49	11.64	Long-term on-the-job training
27-4014	Sound engineering technicians	10	12	2	20	0.61	11.54	Postsecondary vocational award
27-4021	Photographers	566	666	100	18	1.03	11.78	Long-term on-the-job training
27-4032	Film and video editors	13	16	3	23	0.62	12.06	Bachelor's degree
27-4099	Media and communication equipment workers, all other	14	14	0	0	0.76	15.79	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-1011	Chiropractors	41	52	11	27	0.88	23.57	First professional degree
29-1021	Dentists, general	48	52	4	8	0.65	62.76	First professional degree
29-1031	Dietitians and nutritionists	57	63	6	11	1.03	23.62	Bachelor's degree
29-1041	Optometrists	30	36	6	20	0.77	31.05	First professional degree
29-1051	Pharmacists	150	200	50	33	0.73	50.37	First professional degree
29-1069	Physicians and surgeons	417	462	45	11	0.64	78.30	First professional degree
29-1071	Physician assistants	27	31	4	15	0.47	27.89	Bachelor's degree
29-1081	Podiatrists	13	16	3	23	0.49	20.19	First professional degree
29-1111	Registered nurses	1,583	1,846	263	17	0.80	27.09	Associate's degree
29-1122	Occupational therapists	57	70	13	23	0.69	29.46	Master's degree
29-1123	Physical therapists	176	230	54	31	1.14	35.54	Master's degree
29-1126	Respiratory therapists	39	46	7	18	0.49	22.03	Associate's degree
29-1127	Speech-language pathologists	89	100	11	12	0.81	25.64	Master's degree
29-1129	Therapists, all other	22	27	5	23	0.47	14.82	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-1131	Veterinarians	40	58	18	45	0.71	27.30	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	28	33	5	18	0.45	22.82	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	119	197	78	66	0.93	23.39	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	121	181	60	50	1.03	15.58	Associate's degree
29-2021	Dental hygienists	151	187	36	24	1.12	34.23	Associate's degree
29-2031	Cardiovascular technologists and technicians	33	41	8	24	0.85	16.82	Associate's degree
29-2032	Diagnostic medical sonographers	25	35	10	40	0.64	21.91	Associate's degree
29-2033	Nuclear medicine technologists	21	27	6	29	1.15	23.41	Associate's degree
29-2034	Radiologic technologists and technicians	185	258	73	39	1.16	24.11	Associate's degree
29-2041	Emergency medical technicians and paramedics	107	125	18	17	0.68	21.13	Postsecondary vocational award
29-2051	Dietetic technicians	46	55	9	20	2.28	8.44	Moderate-term on-the-job training
29-2052	Pharmacy technicians	246	295	49	20	0.98	12.40	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	31	31	0	0	2.35	20.05	Associate's degree
29-2055	Surgical technologists	92	108	16	17	1.34	16.76	Postsecondary vocational award

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-2056	Veterinary technologists and technicians	53	82	29	55	0.86	16.28	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	521	618	97	19	0.93	17.49	Postsecondary vocational award
29-2071	Medical records and health information technicians	221	256	35	16	1.70	17.03	Associate's degree
29-2081	Opticians, dispensing	49	60	11	22	0.88	12.89	Long-term on-the-job training
29-2091	Orthotists and prosthetists	17	17	0	0	1.35	22.86	Bachelor's degree
29-2099	Healthcare technologists and technicians, all other	19	22	3	16	0.30	12.37	Postsecondary vocational award
29-9011	Occupational health and safety specialists	58	61	3	5	1.39	24.43	Bachelor's degree
29-9099	Healthcare practitioners and technical workers, all other	12	13	1	8	0.26	15.91	Postsecondary vocational award
31-1011	Home health aides	584	743	159	27	0.76	10.84	Short-term on-the-job training
31-1012	Nursing aides, orderlies, and attendants	1,050	1,315	265	25	0.91	10.17	Postsecondary vocational award
31-1013	Psychiatric aides	53	62	9	17	0.51	8.36	Short-term on-the-job training
31-2011	Occupational therapist assistants	16	22	6	38	0.79	22.55	Associate's degree
31-2021	Physical therapist assistants	74	105	31	42	1.54	24.43	Associate's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
31-2022	Physical therapist aides	42	58	16	38	1.18	11.08	Short-term on-the-job training
31-9011	Massage therapists	67	65	-2	-3	0.87	9.62	Postsecondary vocational award
31-9091	Dental assistants	158	194	36	23	0.69	17.16	Moderate-term on-the-job training
31-9092	Medical assistants	295	381	86	29	0.78	11.99	Moderate-term on-the-job training
31-9093	Medical equipment preparers	45	56	11	24	1.03	12.60	Short-term on-the-job training
31-9094	Medical transcriptionists	62	76	14	23	0.85	12.82	Postsecondary vocational award
31-9095	Pharmacy aides	39	46	7	18	0.81	8.34	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	36	49	13	36	0.57	9.37	Short-term on-the-job training
31-9099	Healthcare support workers, all other	97	139	42	43	0.64	16.29	Short-term on-the-job training
33-1011	First-line supervisors/managers of correctional officers	34	38	4	12	1.02	26.05	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	80	86	6	8	1.18	27.40	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
33-1021	First-line supervisors/managers of fire fighting and prevention workers	43	47	4	9	1.01	31.47	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	97	100	3	3	2.18	24.67	Work experience in a related field
33-2011	Fire fighters	354	392	38	11	1.58	16.70	Long-term on-the-job training
33-2021	Fire inspectors and investigators	11	12	1	9	0.95	19.67	Work experience in a related field
33-3011	Bailiffs	22	24	2	9	1.36	11.61	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	413	476	63	15	1.34	16.57	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	39	42	3	8	0.47	18.72	Work experience in a related field
33-3051	Police and sheriff's patrol officers	325	360	35	11	0.68	17.87	Long-term on-the-job training
33-9011	Animal control workers	18	20	2	11	1.37	12.81	Moderate-term on-the-job training
33-9021	Private detectives and investigators	31	39	8	26	0.59	11.03	Work experience in a related field
33-9031	Gaming surveillance officers and gaming investigators	17	23	6	35	0.61	7.01	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
33-9032	Security guards	553	553	0	0	0.68	12.33	Short-term on-the-job training
33-9091	Crossing guards	24	26	2	8	0.47	8.98	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	84	88	4	5	0.90	8.44	Short-term on-the-job training
33-9099	Protective service workers, all other	39	42	3	8	0.54	11.13	Short-term on-the-job training
35-1011	Chefs and head cooks	280	286	6	2	3.03	15.39	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	885	935	50	6	1.31	13.02	Work experience in a related field
35-2011	Cooks, fast food	758	778	20	3	1.77	7.67	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	316	366	50	16	1.03	8.23	Moderate-term on-the-job training
35-2013	Cooks, private household	15	17	2	13	0.83	8.20	Long-term on-the-job training
35-2014	Cooks, restaurant	1,158	1,173	15	1	1.68	12.08	Long-term on-the-job training
35-2015	Cooks, short order	293	298	5	2	2.14	9.10	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
35-2019	Cooks, all other	20	23	3	15	0.78	9.11	Moderate-term on-the-job training
35-2021	Food preparation workers	971	1,079	108	11	1.41	9.25	Short-term on-the-job training
35-3011	Bartenders	501	528	27	5	1.26	8.97	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	1,426	1,571	145	10	0.69	7.66	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	951	1,036	85	9	2.40	7.13	Short-term on-the-job training
35-3031	Waiters and waitresses	3,122	3,162	40	1	1.74	7.71	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	211	233	22	10	1.48	10.44	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	736	757	21	3	2.33	8.43	Short-term on-the-job training
35-9021	Dishwashers	750	765	15	2	1.89	8.13	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	604	605	1	0	2.26	8.64	Short-term on-the-job training
35-9099	Food preparation and serving related workers, all other	13	14	1	8	0.32	7.48	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	477	572	95	20	1.60	12.08	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	466	542	76	16	4.16	18.26	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	1,480	1,724	244	16	0.86	9.53	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	3,413	3,691	278	8	2.13	8.22	Short-term on-the-job training
37-2019	Building cleaning workers, all other	512	682	170	33	1.22	7.14	Short-term on-the-job training
37-2021	Pest control workers	271	353	82	30	3.83	13.47	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	2,753	3,223	470	17	3.54	12.42	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	91	118	27	30	1.09	7.63	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	85	111	26	31	0.96	7.05	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	86	112	26	30	1.14	6.87	Short-term on-the-job training
39-1011	Gaming supervisors	23	29	6	26	0.59	8.32	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-1012	Slot key persons	19	24	5	26	0.59	6.55	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	279	293	14	5	1.56	11.73	Work experience in a related field
39-2011	Animal trainers	54	52	-2	-4	0.76	7.62	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	338	320	-18	-5	1.22	8.05	Short-term on-the-job training
39-3011	Gaming dealers	11	14	3	27	0.15	9.80	Postsecondary vocational award
39-3012	Gaming and sports book writers and runners	37	40	3	8	1.54	7.93	Short-term on-the-job training
39-3021	Motion picture projectionists	12	14	2	17	1.34	9.58	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	104	121	17	16	1.32	7.14	Short-term on-the-job training
39-3091	Amusement and recreation attendants	657	707	50	8	3.39	8.29	Short-term on-the-job training
39-3093	Locker room, coatroom, and dressing room attendants	16	18	2	13	0.94	7.19	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	32	33	1	3	0.80	8.08	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-4021	Funeral attendants	34	37	3	9	1.34	12.99	Short-term on-the-job training
39-5011	Barbers	22	12	-10	-45	0.59	7.21	Postsecondary vocational award
39-5012	Hairdressers, hairstylists, and cosmetologists	294	243	-51	-17	0.70	12.54	Postsecondary vocational award
39-5092	Manicurists and pedicurists	44	43	-1	-2	0.87	11.45	Postsecondary vocational award
39-5094	Skin care specialists	25	25	0	0	0.81	13.17	Postsecondary vocational award
39-6011	Baggage porters and bellhops	35	31	-4	-11	0.90	8.84	Short-term on-the-job training
39-6012	Concierges	12	12	0	0	0.71	10.66	Moderate-term on-the-job training
39-6021	Tour guides and escorts	42	45	3	7	1.29	8.10	Moderate-term on-the-job training
39-6022	Travel guides	14	17	3	21	0.69	8.50	Moderate-term on-the-job training
39-6031	Flight attendants	16	19	3	19	0.22	21.94	Long-term on-the-job training
39-9011	Child care workers	951	1,073	122	13	0.66	7.17	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-9021	Personal and home care aides	383	463	80	21	0.55	8.37	Short-term on-the-job training
39-9031	Fitness trainers and aerobics instructors	230	249	19	8	1.08	12.06	Postsecondary vocational award
39-9032	Recreation workers	269	294	25	9	1.01	8.90	Short-term on-the-job training
39-9041	Residential advisors	15	17	2	13	0.34	10.35	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	72	55	-17	-24	0.75	7.88	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	1,947	2,206	259	13	1.16	14.16	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	552	669	117	21	0.80	16.07	Work experience in a related field
41-2011	Cashiers, except gaming	3,470	3,717	247	7	1.30	8.51	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	35	42	7	20	0.74	13.66	Short-term on-the-job training
41-2021	Counter and rental clerks	319	373	54	17	0.94	10.35	Short-term on-the-job training
41-2022	Parts salespersons	117	128	11	9	0.72	15.01	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
41-2031	Retail salespersons	4,136	4,819	683	17	1.11	10.08	Short-term on-the-job training
41-3011	Advertising sales agents	210	265	55	26	1.27	18.55	Moderate-term on-the-job training
41-3021	Insurance sales agents	516	581	65	13	0.95	14.91	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	401	500	99	25	0.84	13.59	Bachelor's degree
41-3041	Travel agents	64	77	13	20	0.76	7.52	Postsecondary vocational award
41-3099	Sales representatives, services, all other	338	429	91	27	0.59	15.56	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	135	166	31	23	0.34	28.07	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	525	668	143	27	0.44	19.96	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	58	70	12	21	0.62	9.16	Moderate-term on-the-job training
41-9012	Models	23	27	4	17	0.72	6.56	Moderate-term on-the-job training
41-9021	Real estate brokers	2,526	3,625	1099	44	1.86	8.40	Work experience in a related field
41-9022	Real estate sales agents	2,910	4,063	1153	40	2.01	9.82	Postsecondary vocational award

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
41-9031	Sales engineers	12	15	3	25	0.20	29.11	Bachelor's degree
41-9041	Telemarketers	216	230	14	6	0.84	9.73	Short-term on-the-job training
41-9091	Door-to-door sales workers, news and street vendors, and related workers	568	691	123	22	0.75	6.56	Short-term on-the-job training
41-9099	Sales and related workers, all other	178	215	37	21	0.76	7.33	Moderate-term on-the-job training
43-1011	First-line supervisors/managers of office and administrative support workers	1,053	1,172	119	11	0.90	18.45	Work experience in a related field
43-2011	Switchboard operators, including answering service	117	114	-3	-3	1.01	11.21	Short-term on-the-job training
43-2021	Telephone operators	12	10	-2	-17	0.58	10.87	Short-term on-the-job training
43-3011	Bill and account collectors	163	200	37	23	0.52	11.85	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	419	470	51	12	1.06	13.04	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	1,345	1,562	217	16	0.80	13.07	Moderate-term on-the-job training
43-3051	Payroll and timekeeping clerks	194	204	10	5	1.28	12.40	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-3061	Procurement clerks	38	37	-1	-3	0.63	13.32	Short-term on-the-job training
43-3071	Tellers	575	680	105	18	1.21	12.49	Short-term on-the-job training
43-4011	Brokerage clerks	30	31	1	3	0.58	12.59	Moderate-term on-the-job training
43-4031	Court, municipal, and license clerks	69	76	7	10	0.78	14.07	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	17	16	-1	-6	0.36	14.48	Short-term on-the-job training
43-4051	Customer service representatives	1,167	1,470	303	26	0.67	14.66	Moderate-term on-the-job training
43-4071	File clerks	81	70	-11	-14	0.50	11.37	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	453	416	-37	-8	2.68	9.94	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	173	203	30	17	0.90	11.95	Short-term on-the-job training
43-4121	Library assistants, clerical	33	36	3	9	0.36	10.21	Short-term on-the-job training
43-4131	Loan interviewers and clerks	37	39	2	5	0.22	14.60	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-4141	New accounts clerks	67	64	-3	-4	1.04	16.23	Work experience in a related field
43-4151	Order clerks	79	73	-6	-8	0.45	13.35	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	112	121	9	8	0.88	14.95	Short-term on-the-job training
43-4171	Receptionists and information clerks	955	1,130	175	18	1.09	11.27	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	64	53	-11	-17	0.51	11.11	Short-term on-the-job training
43-4199	Information and record clerks, all other	21	18	-3	-14	0.13	15.97	Short-term on-the-job training
43-5021	Couriers and messengers	183	224	41	22	0.86	8.45	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	88	99	11	13	1.19	14.25	Moderate-term on-the-job training
43-5032	Dispatchers, except police, fire, and ambulance	76	82	6	8	0.53	16.73	Moderate-term on-the-job training
43-5041	Meter readers, utilities	59	57	-2	-3	1.69	17.29	Short-term on-the-job training
43-5051	Postal service clerks	67	68	1	1	1.18	26.17	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-5052	Postal service mail carriers	209	211	2	1	0.81	22.21	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	20	19	-1	-5	0.15	16.07	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	75	85	10	13	0.36	15.95	Short-term on-the-job training
43-5071	Shipping, receiving, and traffic clerks	262	299	37	14	0.47	12.42	Short-term on-the-job training
43-5081	Stock clerks and order fillers	965	996	31	3	0.69	9.59	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	37	36	-1	-3	0.67	9.58	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	743	865	122	16	0.59	15.59	Moderate-term on-the-job training
43-6012	Legal secretaries	227	284	57	25	0.84	11.93	Postsecondary vocational award
43-6013	Medical secretaries	486	587	101	21	1.14	12.46	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	1,520	1,614	94	6	0.96	13.06	Moderate-term on-the-job training
43-9021	Data entry keyers	87	93	6	7	0.38	10.46	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-9022	Word processors and typists	78	92	14	18	0.58	7.73	Moderate-term on-the-job training
43-9031	Desktop publishers	27	36	9	33	0.61	7.93	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	53	54	1	2	0.27	16.45	Moderate-term on-the-job training
43-9051	Mail clerks and mail machine operators, except postal service	53	51	-2	-4	0.47	11.48	Short-term on-the-job training
43-9061	Office clerks, general	2,101	2,430	329	16	0.90	10.60	Short-term on-the-job training
43-9199	Office and administrative support workers, all other	51	59	8	16	0.23	10.34	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	60	59	-1	-2	1.36	24.39	Work experience in a related field
45-2041	Graders and sorters, agricultural products	28	29	1	4	0.71	8.67	Work experience in a related field
45-2091	Agricultural equipment operators	19	22	3	16	0.36	10.56	Moderate-term on-the-job training
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	371	446	75	20	0.70	8.54	Short-term on-the-job training
45-2093	Farmworkers, farm and ranch animals	35	42	7	20	0.50	13.84	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
45-3011	Fishers and related fishing workers	147	116	-31	-21	2.22	7.40	Moderate-term on-the-job training
45-4011	Forest and conservation workers	29	28	-1	-3	2.67	11.62	Moderate-term on-the-job training
45-4021	Fallers	25	27	2	8	1.88	19.61	Moderate-term on-the-job training
45-4022	Logging equipment operators	197	166	-31	-16	6.97	17.56	Moderate-term on-the-job training
45-4023	Log graders and scalers	22	24	2	9	1.92	21.05	Moderate-term on-the-job training
45-4029	Logging workers, all other	20	23	3	15	1.66	22.38	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	991	1,152	161	16	1.31	19.48	Work experience in a related field
47-2011	Boilermakers	38	43	5	13	2.47	21.07	Long-term on-the-job training
47-2021	Brickmasons and blockmasons	192	213	21	11	1.93	17.54	Long-term on-the-job training
47-2022	Stonemasons	38	46	8	21	1.00	13.66	Long-term on-the-job training
47-2031	Carpenters	1,468	1,682	214	15	1.29	14.91	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2041	Carpet installers	38	45	7	18	0.87	13.16	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	30	35	5	17	1.01	12.66	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	53	62	9	17	2.06	13.00	Moderate-term on-the-job training
47-2044	Tile and marble setters	83	99	16	19	1.48	14.48	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	146	155	9	6	0.98	14.58	Moderate-term on-the-job training
47-2053	Terrazzo workers and finishers	20	23	3	15	1.96	13.90	Long-term on-the-job training
47-2061	Construction laborers	1,365	1,590	225	16	1.33	11.93	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	34	40	6	18	0.73	13.04	Moderate-term on-the-job training
47-2072	Pile-driver operators	44	54	10	23	1.93	13.91	Moderate-term on-the-job training
47-2073	Operating engineers and other construction equipment operators	435	520	85	20	1.38	15.03	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	72	87	15	21	0.63	15.94	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2082	Tapers	39	48	9	23	0.84	13.53	Moderate-term on-the-job training
47-2111	Electricians	556	514	-42	-8	1.05	14.47	Long-term on-the-job training
47-2121	Glaziers	71	90	19	27	1.71	13.80	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	81	98	17	21	3.70	15.28	Moderate-term on-the-job training
47-2132	Insulation workers, mechanical	14	18	4	29	0.61	12.38	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	613	651	38	6	1.58	13.49	Moderate-term on-the-job training
47-2142	Paperhangers	14	16	2	14	1.12	13.16	Moderate-term on-the-job training
47-2151	Pipelayers	259	331	72	28	3.30	12.86	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	337	407	70	21	0.96	16.41	Long-term on-the-job training
47-2161	Plasterers and stucco masons	17	21	4	24	0.47	14.69	Long-term on-the-job training
47-2171	Reinforcing iron and rebar workers	18	19	1	6	0.83	13.43	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2181	Roofers	89	111	22	25	0.70	12.73	Moderate-term on-the-job training
47-2211	Sheet metal workers	119	140	21	18	0.98	15.99	Long-term on-the-job training
47-2221	Structural iron and steel workers	42	50	8	19	0.81	16.62	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	43	47	4	9	1.11	10.48	Short-term on-the-job training
47-3012	Helpers, carpenters	231	248	17	7	3.98	12.35	Short-term on-the-job training
47-3013	Helpers, electricians	201	154	-47	-23	2.74	11.26	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	24	23	-1	-4	1.58	10.26	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	97	118	21	22	1.67	12.22	Short-term on-the-job training
47-3016	Helpers, roofers	26	31	5	19	1.73	9.55	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	24	29	5	21	1.18	9.37	Short-term on-the-job training
47-4011	Construction and building inspectors	103	124	21	20	1.09	19.57	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-4031	Fence erectors	25	30	5	20	0.97	11.91	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	39	43	4	10	1.19	22.45	Moderate-term on-the-job training
47-4051	Highway maintenance workers	27	30	3	11	0.26	13.68	Moderate-term on-the-job training
47-4061	Rail-track laying and maintenance equipment operators	12	11	-1	-8	1.03	19.79	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	27	30	3	11	1.24	13.80	Moderate-term on-the-job training
47-4091	Segmental pavers	13	15	2	15	2.66	14.94	Moderate-term on-the-job training
47-4099	Construction and related workers, all other	12	15	3	25	0.30	14.83	Moderate-term on-the-job training
47-5021	Earth drillers, except oil and gas	16	21	5	31	0.80	14.62	Moderate-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	442	499	57	13	1.32	23.25	Work experience in a related field
49-2011	Computer, automated teller, and office machine repairers	51	62	11	22	0.41	12.28	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	48	59	11	23	0.31	15.33	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-2094	Electrical and electronics repairers, commercial and industrial equipment	63	65	2	3	1.11	16.02	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	31	32	1	3	1.72	25.04	Postsecondary vocational award
49-2096	Electronic equipment installers and repairers, motor vehicles	10	13	3	30	0.64	12.25	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	32	40	8	25	0.74	11.51	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	24	28	4	17	0.46	12.14	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	25	26	1	4	0.28	20.40	Postsecondary vocational award
49-3021	Automotive body and related repairers	112	136	24	21	0.83	15.26	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	15	18	3	20	0.87	14.42	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	611	737	126	21	0.99	15.99	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	107	127	20	19	0.52	13.46	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	81	93	12	15	0.82	17.65	Postsecondary vocational award

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-3051	Motorboat mechanics	93	118	25	27	3.57	13.77	Long-term on-the-job training
49-3052	Motorcycle mechanics	19	24	5	26	0.82	9.59	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	59	69	10	17	2.00	12.99	Moderate-term on-the-job training
49-3093	Tire repairers and changers	25	30	5	20	0.36	10.94	Short-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	24	27	3	13	0.70	14.60	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	404	472	68	17	1.69	16.40	Long-term on-the-job training
49-9031	Home appliance repairers	50	62	12	24	0.82	8.40	Long-term on-the-job training
49-9041	Industrial machinery mechanics	53	59	6	11	0.25	16.84	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	1,379	1,531	152	11	1.33	13.80	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	27	27	0	0	0.49	13.49	Short-term on-the-job training
49-9044	Millwrights	11	13	2	18	0.32	10.67	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-9051	Electrical power-line installers and repairers	82	88	6	7	0.95	26.02	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	94	107	13	14	0.69	17.39	Long-term on-the-job training
49-9062	Medical equipment repairers	22	29	7	32	0.68	13.18	Associate's degree
49-9091	Coin, vending, and amusement machine servicers and repairers	35	41	6	17	0.77	9.54	Moderate-term on-the-job training
49-9092	Commercial divers	24	32	8	33	1.00	7.26	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	25	32	7	28	1.10	7.90	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	41	55	14	34	1.29	11.71	Moderate-term on-the-job training
49-9097	Signal and track switch repairers	25	32	7	28	0.94	8.08	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	159	187	28	18	1.45	11.38	Short-term on-the-job training
49-9099	Installation, maintenance, and repair workers, all other	36	45	9	25	0.30	11.62	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	262	275	13	5	0.53	18.97	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-2041	Structural metal fabricators and fitters	27	35	8	30	0.33	13.34	Moderate-term on-the-job training
51-2091	Fiberglass laminators and fabricators	29	29	0	0	1.07	12.93	Moderate-term on-the-job training
51-2092	Team assemblers	253	287	34	13	0.32	11.16	Moderate-term on-the-job training
51-2099	Assemblers and fabricators, all other	21	23	2	10	0.10	12.20	Moderate-term on-the-job training
51-3011	Bakers	35	38	3	9	0.31	10.14	Long-term on-the-job training
51-3021	Butchers and meat cutters	111	120	9	8	1.14	10.15	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	78	97	19	24	0.65	10.27	Short-term on-the-job training
51-3023	Slaughterers and meat packers	40	55	15	38	0.54	7.29	Moderate-term on-the-job training
51-3092	Food batchmakers	30	38	8	27	0.40	10.85	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	11	12	1	9	0.36	10.67	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	69	65	-4	-6	0.70	13.74	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	20	18	-2	-10	0.32	11.19	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	54	52	-2	-4	0.33	13.39	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	18	18	0	0	0.29	12.05	Moderate-term on-the-job training
51-4041	Machinists	46	50	4	9	0.16	14.99	Long-term on-the-job training
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	28	22	-6	-21	0.28	12.09	Moderate-term on-the-job training
51-4111	Tool and die makers	17	16	-1	-6	0.28	17.27	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	102	124	22	22	0.34	15.50	Long-term on-the-job training
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	42	52	10	24	0.76	13.97	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	13	12	-1	-8	0.72	9.94	Moderate-term on-the-job training
51-5011	Bindery workers	16	16	0	0	0.37	10.79	Short-term on-the-job training
51-5021	Job printers	15	16	1	7	0.42	13.58	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-5022	Prepress technicians and workers	11	11	0	0	0.23	12.47	Postsecondary vocational award
51-5023	Printing machine operators	21	23	2	10	0.14	13.84	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	344	394	50	15	1.71	9.12	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	102	111	9	9	2.02	10.35	Short-term on-the-job training
51-6031	Sewing machine operators	168	139	-29	-17	1.12	12.08	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	16	20	4	25	0.69	7.13	Long-term on-the-job training
51-6051	Sewers, hand	47	58	11	23	0.89	6.79	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	48	60	12	25	0.68	6.89	Long-term on-the-job training
51-6093	Upholsterers	43	53	10	23	0.64	7.92	Long-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	31	30	-1	-3	0.32	14.23	Long-term on-the-job training
51-7021	Furniture finishers	22	27	5	23	0.69	8.07	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-7041	Sawing machine setters, operators, and tenders, wood	25	23	-2	-8	0.62	10.85	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	66	69	3	5	1.10	12.70	Moderate-term on-the-job training
51-8011	Nuclear power reactor operators	16	19	3	19	2.51	26.95	Long-term on-the-job training
51-8013	Power plant operators	53	59	6	11	1.84	22.92	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	49	51	2	4	1.58	12.86	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	64	71	7	11	0.75	18.26	Long-term on-the-job training
51-8093	Petroleum pump system operators, refinery operators, and gaugers	15	13	-2	-13	0.41	22.31	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	42	40	-2	-5	1.06	28.45	Moderate-term on-the-job training
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	12	14	2	17	0.41	11.43	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	16	17	1	6	0.54	10.53	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	18	19	1	6	0.18	10.37	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-9032	Cutting and slicing machine setters, operators, and tenders	36	38	2	6	0.66	9.32	Moderate-term on-the-job training
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	34	35	1	3	0.58	11.37	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	15	15	0	0	0.88	10.07	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	183	184	1	1	0.54	12.18	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	19	23	4	21	0.47	12.87	Postsecondary vocational award
51-9111	Packaging and filling machine operators and tenders	35	37	2	6	0.14	9.50	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	19	19	0	0	0.25	10.02	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	21	25	4	19	0.52	16.00	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	17	21	4	24	0.62	11.54	Short-term on-the-job training
51-9131	Photographic process workers	15	13	-2	-13	0.66	10.89	Moderate-term on-the-job training
51-9132	Photographic processing machine operators	28	22	-6	-21	0.68	9.82	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-9141	Semiconductor processors	15	18	3	20	0.53	17.72	Associate's degree
51-9195	Molders, shapers, and casters, except metal and plastic	30	33	3	10	0.85	13.56	Moderate-term on-the-job training
51-9196	Paper goods machine setters, operators, and tenders	11	13	2	18	0.15	9.12	Moderate-term on-the-job training
51-9197	Tire builders	78	84	6	8	4.90	14.40	Moderate-term on-the-job training
51-9198	Helpers--Production workers	200	214	14	7	0.59	9.52	Short-term on-the-job training
51-9199	Production workers, all other	50	58	8	16	0.26	9.83	Moderate-term on-the-job training
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	66	80	14	21	0.47	19.71	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	116	135	19	16	0.70	19.18	Work experience in a related field
53-2011	Airline pilots, copilots, and flight engineers	10	12	2	20	0.18	28.61	Bachelor's degree
53-2012	Commercial pilots	10	12	2	20	0.35	20.40	Postsecondary vocational award
53-3011	Ambulance drivers and attendants, except emergency medical technicians	26	24	-2	-8	1.56	9.29	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	80	75	-5	-6	0.53	7.73	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-3022	Bus drivers, school	452	451	-1	0	1.25	8.82	Short-term on-the-job training
53-3031	Driver/sales workers	595	625	30	5	1.34	15.72	Short-term on-the-job training
53-3032	Truck drivers, heavy and tractor-trailer	991	1,141	150	15	0.72	13.62	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	921	1,068	147	16	1.09	10.82	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	246	243	-3	-1	1.00	7.67	Short-term on-the-job training
53-4019	Locomotive engineers and operators	13	12	-1	-8	0.38	18.06	Moderate-term on-the-job training
53-4031	Railroad conductors and yardmasters	11	10	-1	-9	0.50	19.56	Moderate-term on-the-job training
53-5021	Captains, mates, and pilots of water vessels	48	54	6	13	1.80	21.47	Work experience in a related field
53-5022	Motorboat operators	10	10	0	0	1.41	20.47	Moderate-term on-the-job training
53-6021	Parking lot attendants	52	56	4	8	0.50	7.57	Short-term on-the-job training
53-6031	Service station attendants	21	26	5	24	0.34	10.40	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-7021	Crane and tower operators	16	17	1	6	0.48	12.43	Long-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	35	43	8	23	0.68	12.69	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	198	216	18	9	0.44	11.88	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	276	341	65	24	1.06	9.07	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	1,010	1,129	119	12	0.59	9.75	Short-term on-the-job training
53-7063	Machine feeders and offbearers	38	33	-5	-13	0.40	8.51	Short-term on-the-job training
53-7064	Packers and packagers, hand	256	258	2	1	0.46	7.98	Short-term on-the-job training
53-7081	Refuse and recyclable material collectors	244	267	23	9	2.14	8.51	Short-term on-the-job training
		131,776	148,838	17,062	13%		\$14.17	

at least 1.25 greater than \$14.17

Source: EMSI



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